

# Route Access Standard

## DIRN Section Pages D14 – Goobang Junction to Broken Hill

### Applicability

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|                   |
|-------------------|
| ARTC Network Wide |
| SMS               |

### Publication Requirement

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|               |
|---------------|
| External Only |
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### Primary Source

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### Document Status

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| 1.8       | Apr 2018      | Manager Procedures Development | Stakeholders | Manager Standards | GM Technical Standards |

### Amendment Record

|   |
|---|
| <b>Amendments to the RAS are published at the following</b>   |
| <a href="https://www.artc.com.au/uploads/RAS_Amendments_Register.xlsx">https://www.artc.com.au/uploads/RAS_Amendments_Register.xlsx</a> |

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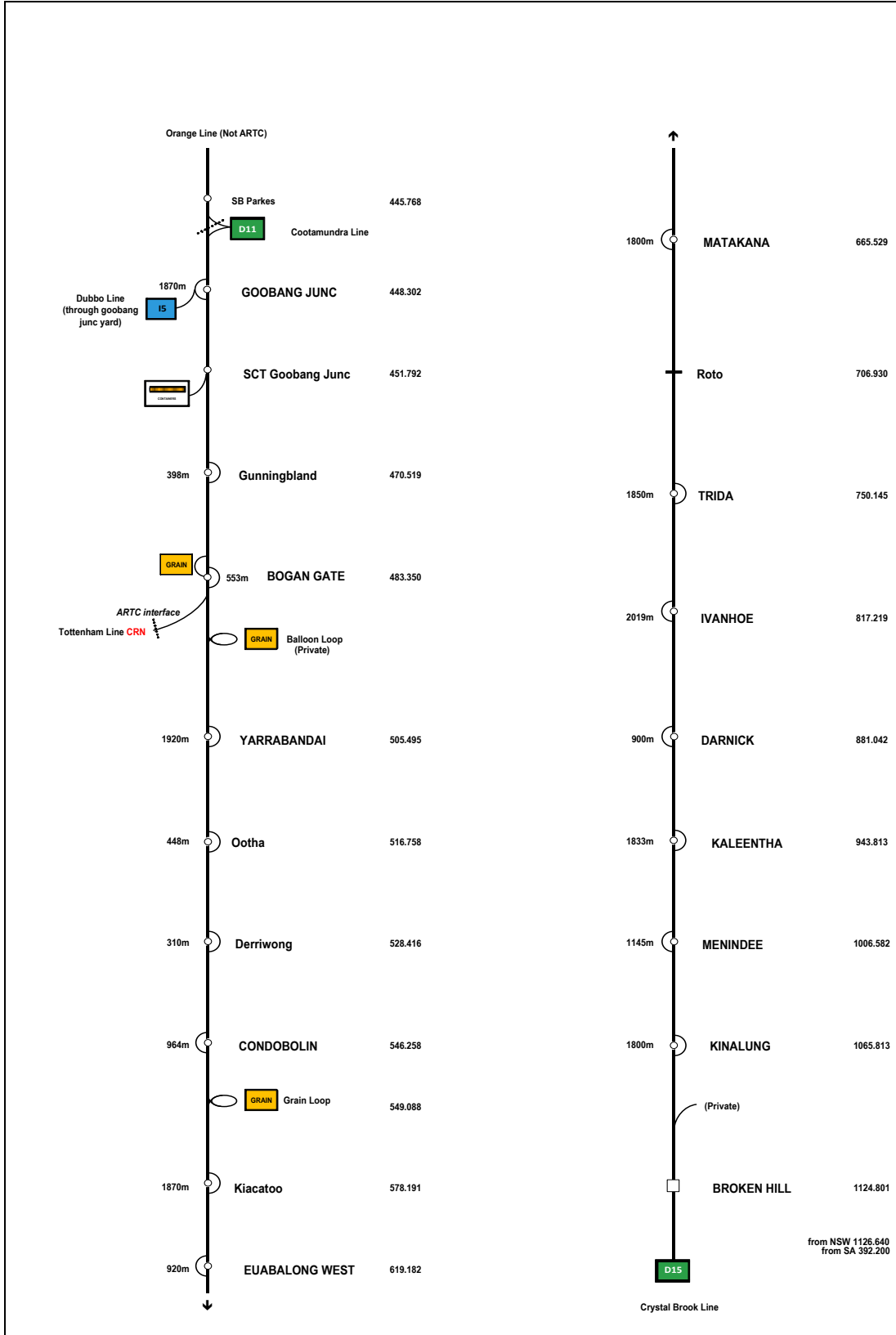
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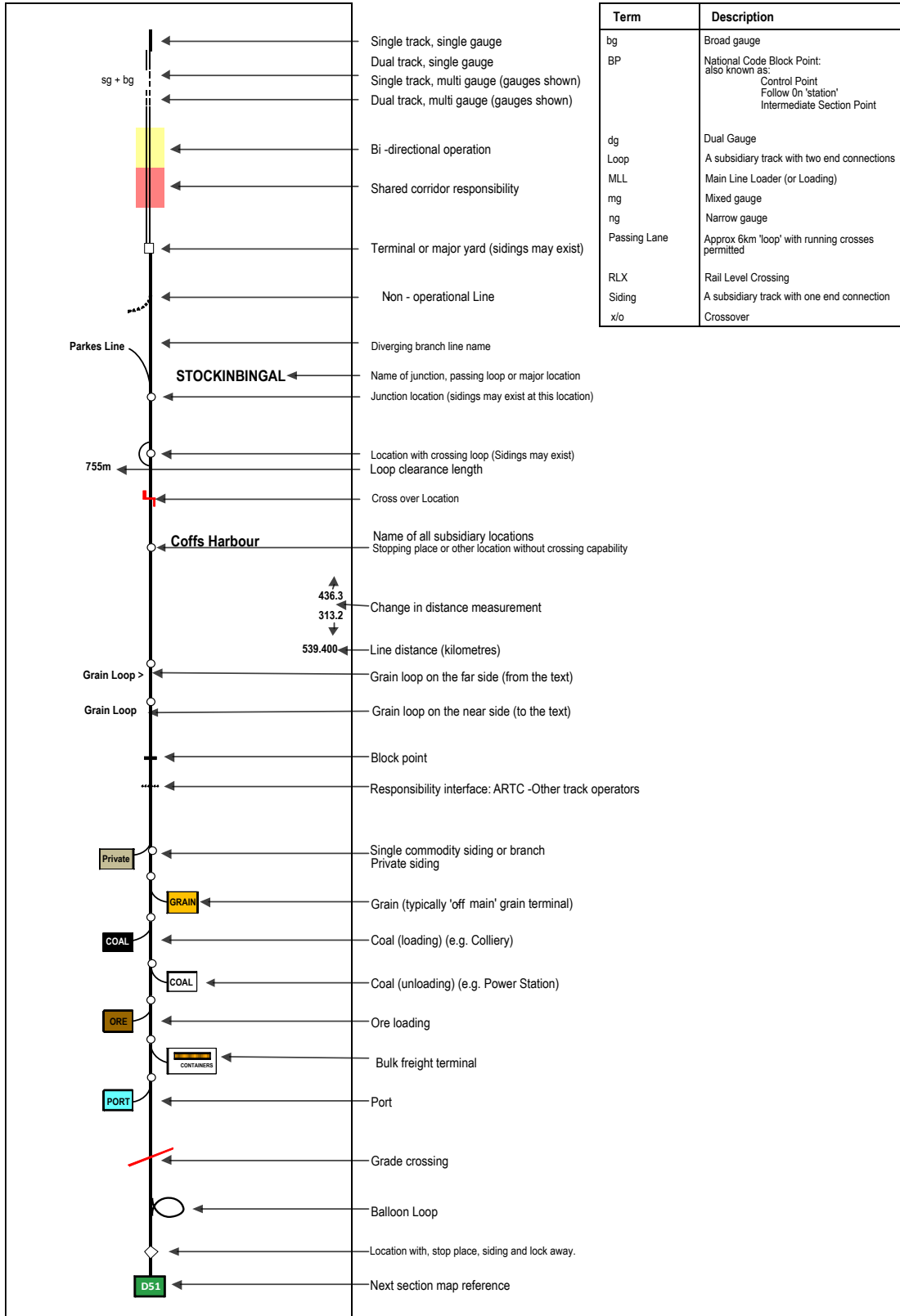
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# 1 D14 – Goobang Junction to Broken Hill

NB: These line maps are indicative only and should be reviewed in conjunction with the legend on page 3. For more detailed map information refer to the ARTC website.



2 D14 Legend



| Term         | Description  |
|--------------|--|
| bg           | Broad gauge  |
| BP           | National Code Block Point:<br>also known as:<br>Control Point<br>Follow On 'station'<br>Intermediate Section Point |
| dg           | Dual Gauge   |
| Loop         | A subsidiary track with two end connections  |
| MLL          | Main Line Loader (or Loading)  |
| mg           | Mixed gauge  |
| ng           | Narrow gauge   |
| Passing Lane | Approx 6km 'loop' with running crosses permitted   |
| RLX          | Rail Level Crossing  |
| Siding       | A subsidiary track with one end connection   |
| x/o          | Crossover  |

### 3 D14 Route Capacity

| <b>PARKES – BROKEN HILL</b> |                      |                                   |        |
|-----------------------------|----------------------|-----------------------------------|--------|
| <b>TRAIN TYPE</b>           | <b>MAXIMUM SPEED</b> | <b>MAXIMUM AXLE LOAD (TONNES)</b> |        |
|                             | (KM/H)               | LOCOS                             | WAGONS |
| <b>FREIGHT</b>              |                      |                                   |        |
|                             | 115                  | 22.3                              | 21     |
|                             | 100                  | 22.8                              | 23     |
|                             | 80                   | 22.8                              | 25     |
| <b>PASSENGER</b>            |                      |                                   |        |
| XPT                         | 145                  | N/A                               |        |
| XPLORER                     | 145                  | N/A                               |        |
| DIESEL HAUL                 | 115                  | 19                                |        |

*Note: Route capacity applies where vehicle characteristics and conditions permit.*

*All new wagon configurations, operating at 25t @ 80kph must meet bridge loading requirements in General Information Section 2.5 Table 2.5.3 & Figure 2.5.1*

| <b>Bogan Gate – Bogan Gate North 483.280 to 486.050 (CRN Tottenham Branch Interface)</b> |                      |                                   |                                 |
|--|----------------------|-----------------------------------|---------------------------------|
| <b>TRAIN TYPE</b>  | <b>MAXIMUM SPEED</b> | <b>MAXIMUM AXLE LOAD (TONNES)</b> |                                 |
|  | (KM/H)               | LOCOS                             | WAGONS                          |
| <b>FREIGHT</b>   |                      |                                   |                                 |
|  | 50                   | 14.5                              | 19                              |
|  | 30                   |                                   | 20 (restriction on wagon class) |
| <b>PASSENGER</b>   |                      |                                   |                                 |
| XPT  | 50                   | N/A                               |                                 |
| XPLORER  | 50                   | N/A                               |                                 |
| DIESEL HAUL  | 50                   | 14.5                              |                                 |

*Note: Route capacity applies where vehicle characteristics and conditions permit.*

## 4 D14 Special Access Conditions

### 4.1 Out of Gauge Steel Trains

The following table outlines locations where crossings may be made as authorised.

| LOCATION      | CROSSING                    |
|---------------|-----------------------------|
| BOGAN GATE    | LOOP LINE                   |
| YARRABANDAI   | LOOP LINE                   |
| CONDOBLIN     | VIA NUMBER ONE GOODS SIDING |
| EUBALONG WEST | LOOP LINE                   |
| MATAKANA      | LOOP LINE                   |
| TRIDA         | LOOP LINE                   |
| IVANHOE       | LOOP LINE                   |
| DARNICK       | UP SIDING                   |
| KALEENTHA     | LOOP LINE                   |
| MENINDEE      | LOOP LINE                   |
| KINALUNG      | UP SIDING                   |

### 4.2 High Load Detector Parkes

High load detectors are provided at 447.350 km (East detector) and 450.580 km (West detector) and are used to detect loading that exceeds the height of 4.270 m.

The alarm for the high load detector is located in the Junee Network Control. If the alarm is activated, the Signaller must arrange for the train to be inspected by the Operator.

At no time must a wagon with loading exceeding 4.270 m in height be allowed to depart Parkes yard in the Up direction.

### 4.3 Operation of Double Stack Containers

The following list specifies locations between Goobang Junction and Broken Hill suitable for double stack containers.

All Main line track between Goobang Junction and Broken Hill is suitable for double stack operation.

| LOCATION         | TRACK       | SUITABLE FOR DOUBLE STACK CONTAINERS |
|------------------|-------------|--------------------------------------|
| GOOBANG JUNCTION | LOOP LINE   | YES                                  |
|                  | SIDINGS     | YES                                  |
| GUNNINGBLAND     | DOWN SIDING | NO                                   |
| BOGAN GATE       | LOOP LINE   | YES                                  |

| LOCATION      | TRACK              | SUITABLE FOR DOUBLE STACK CONTAINERS |
|---------------|--------------------|--------------------------------------|
|               | UP SIDING          | NO                                   |
| YARRABANDAI   | UP SIDING          | YES                                  |
|               | LOOP LINE          | YES                                  |
| OOTHA         | DOWN SIDING        | NO                                   |
| DERRIWONG     | DOWN SIDING        | NO                                   |
| CONDOBOLIN    | DOWN SIDINGS       | NO                                   |
|               | LOOP LINE          | YES                                  |
| KIACATOOO     | DOWN SIDING        | NO                                   |
| EUBALONG WEST | UP SIDINGS         | NO                                   |
| MATAKANA      | LOOP LINE          | YES                                  |
| TRIDA         | LOOP LINE          | YES                                  |
| IVANHOE       | LOOP LINE          | YES                                  |
| DARNICK       | LOOP LINE          | YES                                  |
|               | UP SIDING          | YES                                  |
| KALEENTHA     | LOOP LINE          | YES                                  |
| MENINDEE      | LOOP LINE          | YES                                  |
| KINALUNG      | LOOP LINE          | YES                                  |
| BROKEN HILL   | GOODS LOOP         | YES                                  |
|               | SOUTH THROUGH ROAD | YES                                  |

## 5 D14 Location of Speed Signs

### GOOBANG JUNCTION TO BROKEN HILL

| LOCATION         | KILOMETRAGE  | DOWN     |          | UP     |     |
|------------------|--|----------|----------|--------|-----|
|                  |  | NORMAL   | XPT      | NORMAL | XPT |
| PARKES           | 445.505  |          |          |        |     |
|                  | 445.707  | -        | -        | 40     | 40  |
|                  | 445.900  | -        | -        | X25    | X25 |
|                  | 446.160  | 70       | 70       | 40     | 40  |
| GOOBANG JUNCTION | 448.302  |          |          |        |     |
|                  | <i>* refer to section page 15,<br/>Branch line to Dubbo<br/>through Goobang Junction<br/>Yard.</i> |          |          |        |     |
|                  | 448.320  | 110      | 110      | 70     | 70  |
|                  | 453.342  | -        | -        | 110    | 110 |
|                  | 453.417  | 115      | 145      | -      | -   |
|                  | 453.423  |          | 120      |        | 145 |
|                  | 453.523  |          | 145      |        | 120 |
|                  | 456.662  |          | 120      |        | 145 |
|                  | 456.762  |          | 145      |        | 120 |
|                  | 458.271  |          | 120      |        | 145 |
|                  | 458.371  |          | 145      |        | 120 |
|                  | 459.579  |          | 120      |        | 145 |
|                  | 459.679  |          | 145      |        | 120 |
|                  | 462.475  |          | 120      |        | 145 |
|                  | 462.575  |          | 145      |        | 120 |
|                  | 464.400  | -        | -        | 115    | 145 |
|                  | 464.475  | 115      | 120      | -      | -   |
| GUNNINGBLAND     | 470.631  |          |          |        |     |
|                  | 470.962  | 30 (WLO) | 30 (WLO) |        |     |
|                  | 471.162  | 115      | 115      | -      | -   |
|                  | 472.859  | -        | -        | 115    | 120 |
|                  | 472.959  | 115      | 120      | -      | -   |
|                  | 480.580  | -        | -        | 115    | 115 |
|                  | 480.655  | 115      | 145      | -      | -   |
|                  | 481.697  |          | 120      |        | 145 |
|                  | 481.797  |          | 145      |        | 120 |

| LOCATION    | KILOMETRAGE | DOWN     |          | UP       |          |
|-------------|-------------|----------|----------|----------|----------|
|             |             | NORMAL   | XPT      | NORMAL   | XPT      |
|             | 482.200     | 115 (LX) | 115 (LX) | -        | -        |
| *BOGAN GATE | 483.247     |          |          |          |          |
|             | 484.311     | -        | -        | 115 (LX) | 115 (LX) |
|             | 486.902     |          | 120      |          | 145      |
|             | 487.002     |          | 145      |          | 120      |
|             | 490.412     |          | 120      |          | 145      |
|             | 490.512     |          | 145      |          | 120      |
|             | 494.421     |          | 120      |          | 145      |
|             | 494.521     |          | 145      |          | 120      |
|             | 499.881     | -        | -        | 115      | 145      |
|             | 499.956     | 115      | 140      | -        | -        |
|             | 500.622     | 115      | 145      | -        | -        |
|             | 504.358     | -        | -        | 115      | 140      |
|             | 504.558     | -        | -        | 30 (WLO) | 30 (WLO) |
| YARRABANDI  | 505.495     |          |          |          |          |
|             | 513.612     |          | 120      |          | 145      |
|             | 513.712     |          | 145      |          | 120      |
|             | 513.876     | -        | -        | 115      | 145      |
|             | 513.951     | 115      | 115      | -        | -        |
|             | 515.670     | -        | -        | 115      | 115      |
|             | 515.870     | 90       | 105      | -        | -        |
|             | 517.345     | 115      | 115      | 90       | 105      |
| OOTHA       | 517.403     |          |          |          |          |
|             | 525.512     | -        | -        | 115      | 120      |
|             | 525.587     | 115      | 145      | -        | -        |
|             | 526.547     |          | 120      |          | 145      |
|             | 526.647     |          | 145      |          | 120      |
|             | 528.579     | -        | -        | 60 (WLO) | 60 (WLO) |
| DERRRIWONG  | 528.580     |          |          |          |          |
|             | 530.832     |          | 120      |          | 145      |
|             | 530.932     |          | 145      |          | 120      |
|             | 533.427     |          | 120      |          | 145      |
|             | 533.527     |          | 145      |          | 120      |
|             | 535.452     | -        | -        | 115      | 145      |



| LOCATION  | KILOMETRAGE | DOWN   |     | UP      |         |
|-----------|-------------|--------|-----|---------|---------|
|           |             | NORMAL | XPT | NORMAL  | XPT     |
|           | 535.527     | 115    | 120 | -       | -       |
|           | 535.864     | -      | -   | 115     | 120     |
|           | 535.939     | 115    | 135 | -       | -       |
|           | 539.424     | 115    | 115 | -       | -       |
|           | 540.267     | -      | -   | 115     | 135     |
|           | 540.367     | 115    | 120 | -       | -       |
|           | 541.373     | -      | -   | 115     | 115     |
|           | 541.445     | 115    | 130 | -       | -       |
|           | 542.714     |        | 120 |         | 130     |
|           | 542.814     |        | 130 |         | 120     |
|           | 544.023     | 85     | 85  | -       | -       |
|           | 544.473     |        |     |         | 130     |
|           | 544.573     |        |     |         | 120     |
|           | 545.230     | 60     | 65  | 115     | 130     |
| CONDOBLIN | 546.258     |        |     |         |         |
|           | 546.750     | -      | -   | 60      | 65      |
|           | 547.160     | 115    | 115 | -       | -       |
|           | 549.038     |        |     |         | 145     |
|           | 549.045     | -      | -   | 115     | 120     |
|           | 549.138     | 115    | 145 | -       | 120     |
|           | 552.558     |        | 120 |         | 145     |
|           | 552.658     |        | 145 |         | 120     |
|           | 555.395     |        | 120 |         | 145     |
|           | 555.495     |        | 145 |         | 120     |
|           | 559.881     |        | 120 |         | 145     |
|           | 559.981     |        | 145 |         | 120     |
|           | 565.011     |        | 120 |         | 145     |
|           | 566.111     |        | 145 |         | 120     |
|           | 571.150     |        | 120 |         | 145     |
|           | 571.250     |        | 145 |         | 120     |
| KIACATOO  | 578.108     |        |     |         |         |
|           | 578.710     |        | 120 |         | 145     |
|           | 578.810     |        | 145 |         | 120     |
|           | 589.484     | -      | -   | 80 (LX) | 80 (LX) |

| LOCATION      | KILOMETRAGE | DOWN     |          | UP       |          |
|---------------|-------------|----------|----------|----------|----------|
|               |             | NORMAL   | XPT      | NORMAL   | XPT      |
|               | 591.303     |          | 120      |          | 145      |
|               | 591.403     |          | 145      |          | 120      |
|               | 595.468     |          | 120      |          | 145      |
|               | 595.568     |          | 145      |          | 120      |
|               | 618.179     |          | 120      |          | 145      |
|               | 618.279     |          | 145      |          | 120      |
|               | 618.456     | 115 (LX) | 115 (LX) | -        | -        |
| EUBALONG WEST | 619.182     |          |          |          |          |
|               | 620.560     | -        | -        | 115 (LX) | 115 (LX) |
|               | 633.070     | -        | -        | 115      | 145      |
|               | 633.580     | 105      | 115      | -        | -        |
|               | 634.045     | -        | -        | 105      | 115      |
|               | 634.550     | 115      | 145      | -        | -        |
|               | 635.882     |          | 120      |          | 145      |
|               | 635.982     |          | 145      |          | 120      |
|               | 664.745     | 115(LX)  | 115(LX)  | -        | -        |
| MATAKANA      | 665.860     |          |          |          |          |
|               | 666.930     | -        | -        | 115(LX)  | 115(LX)  |
| ROTO          | 706.980     | -        | -        | -        | -        |
|               | 707.190     |          | 120      |          | 145      |
|               | 707.290     |          | 145      |          | 120      |
|               | 721.540     |          | 120      |          | 145      |
|               | 721.640     |          | 145      |          | 120      |
|               | 749.800     | 70       | 70       | 115      | 115      |
|               | 750.700     | 115      | 145      | 70       | 70       |
| TRIDA         | 751.482     | -        | -        | -        | -        |
|               | 815.273     | 115      | 115      |          |          |
|               | 816.048     |          |          | 115      | 145      |
| IVANHOE       | 817.219     |          |          |          |          |
|               | 818.985     | 115      | 145      |          |          |
|               | 819.400     | -        | -        | 115      | 115      |
|               | 827.455     |          | 120      |          | 145      |
|               | 827.555     |          | 145      |          | 120      |
|               | 858.736     |          | 120      |          | 145      |

| LOCATION  | KILOMETRAGE | DOWN   |     | UP     |     |
|-----------|-------------|--------|-----|--------|-----|
|           |             | NORMAL | XPT | NORMAL | XPT |
|           | 858.836     |        | 145 |        | 120 |
|           | 864.107     |        | 120 |        | 145 |
|           | 864.207     |        | 145 |        | 120 |
|           | 866.763     |        | 120 |        | 145 |
|           | 866.863     |        | 145 |        | 120 |
| DARNICK   | 880.663     |        |     |        |     |
|           | 880.680     |        | 120 |        | 145 |
|           | 880.780     |        | 145 |        | 120 |
|           | 882.575     |        | 120 |        | 145 |
|           | 882.675     |        | 145 |        | 120 |
|           | 887.040     | 115    | 130 | 115    | 145 |
|           | 887.851     | 115    | 145 | 115    | 130 |
|           | 899.778     |        | 120 |        | 145 |
|           | 899.878     |        | 145 |        | 120 |
|           | 902.071     | 115    | 130 | 115    | 145 |
|           | 902.481     | 115    | 145 | 115    | 130 |
|           | 909.652     |        | 120 |        | 145 |
|           | 909.752     |        | 145 |        | 120 |
|           | 917.357     |        | 120 |        | 145 |
|           | 917.457     |        | 145 |        | 120 |
|           | 927.455     |        | 120 |        | 145 |
|           | 927.555     |        | 145 |        | 120 |
|           | 934.000     | 115    | 135 | 115    | 145 |
|           | 934.500     | 115    | 145 | 115    | 135 |
|           | 942.900     | 60     | 65  | 115    | 145 |
|           | 944.100     | 115    | 145 | 60     | 65  |
| KALEENTHA | 944.925     |        |     |        |     |
|           | 951.595     |        | 120 |        | 145 |
|           | 951.695     |        | 145 |        | 120 |
|           | 985.655     | -      | -   | 115    | 145 |
|           | 986.730     | 115    | 135 | -      | -   |
|           | 987.646     | -      | -   | 115    | 135 |

| LOCATION | KILOMETRAGE | DOWN     |          | UP     |     |
|----------|-------------|----------|----------|--------|-----|
|          |             | NORMAL   | XPT      | NORMAL | XPT |
|          | 987.746     | 115      | 145      | -      | -   |
|          | 987.750     |          | 120      |        | 145 |
|          | 987.850     |          | 145      |        | 120 |
|          | 991.912     | -        | -        | 115    | 145 |
|          | 991.987     | 115      | 125      | -      | -   |
|          | 992.924     | 115      | 145      | -      | -   |
|          | 994.766     |          | 120      |        | 125 |
|          | 994.866     |          | 145      |        | 120 |
|          | 995.283     | 115      | 125      | -      | -   |
|          | 995.826     | -        | -        | 115    | 125 |
|          | 995.901     | 115      | 145      | -      | -   |
|          | 1001.637    | -        | -        | 115    | 145 |
|          | 1001.712    | 115      | 120      | -      | -   |
|          | 1004.623    |          |          |        | 125 |
|          | 1004.723    |          |          |        | 120 |
|          | 1005.725    | -        | -        | 115    | 125 |
|          | 1005.740    | 30       | 60       | -      | -   |
| MENINDEE | 1006.582    |          |          |        |     |
|          | 1006.860    | -        | -        | 30     | 60  |
|          | 1006.960    | 80       | 85       | -      | -   |
|          | 1007.570    | -        | -        | 80     | 85  |
|          | 1007.990    | 115      | 115      | -      | -   |
|          | 1009.069    | -        | -        | 115    | 145 |
|          | 1009.169    | 115      | 145      | -      | -   |
|          | 1010.102    | -        | -        | 115    | 115 |
|          | 1011.141    |          | 120      |        | 125 |
|          | 1011.167    |          | 145      |        | 120 |
|          | 1011.241    | -        | -        | 115    | 145 |
|          | 1011.242    | 115      | 125      | -      | -   |
|          | 1012.209    | -        | -        | 115    | 125 |
|          | 1012.284    | 115      | 145      | -      | -   |
|          | 1019.115    |          | 120      |        | 145 |
|          | 1019.215    |          | 125      |        | 120 |
|          | 1023.442    | 115 (LX) | 115 (LX) | -      | -   |

| LOCATION    | KILOMETRAGE | DOWN   |     | UP       |          |
|-------------|-------------|--------|-----|----------|----------|
|             |             | NORMAL | XPT | NORMAL   | XPT      |
|             | 1025.092    | -      | -   | 115 (LX) | 115 (LX) |
|             | 1035.120    |        | 120 |          | 145      |
|             | 1035.220    |        | 145 |          | 120      |
|             | 1061.634    |        | 120 |          | 145      |
|             | 1061.734    |        | 125 |          | 120      |
|             | 1062.650    |        | 120 |          | 145      |
|             | 1062.750    |        | 125 |          | 120      |
| KINALUNG    | 1065.502    |        |     |          |          |
|             | 1068.796    |        | 120 |          | 145      |
|             | 1068.896    |        | 125 |          | 120      |
|             | 1095.883    | -      | -   | 115      | 145      |
|             | 1095.958    | 115    | 125 | -        | -        |
|             | 1097.230    | -      | -   | 115      | 125      |
|             | 1097.241    |        | 120 |          |          |
|             | 1097.341    |        | 125 |          |          |
|             | 1097.610    | 70     | 80  | -        | -        |
|             | 1109.780    | 115    | 120 | -        | -        |
|             | 1110.100    | -      | -   | 70       | 80       |
|             | 1118.393    | 115    | 115 | -        | -        |
|             | 1119.168    | -      | -   | 115      | 120      |
|             | 1120.043    | -      | -   | 115      | 115      |
|             | 1120.280    | 70     | 70  | -        | -        |
|             | 1123.986    | 40     | 40  | 70       | 70       |
| BROKEN HILL | 1124.801    |        |     |          |          |
|             | 1125.900    | X25    | X25 | -        | -        |
|             | 1126.050    | -      | -   | X25      | X25      |
|             | 1126.650    | -      | -   | 40       | 40       |

**\*BOGAN GATE to ARTC/CRN INTERFACE**

| LOCATION           | KILOMETRAGE | DOWN   |     | UP     |     |
|--------------------|-------------|--------|-----|--------|-----|
|                    |             | NORMAL | XPT | NORMAL | XPT |
| BOGAN GATE         | 483.247     |        |     |        |     |
|                    |             | 50     | 50  | 50     | 50  |
| ARTC/CRN INTERFACE | 486.017     |        |     |        |     |

| ACRONYM | DESCRIPTION           |
|---------|-----------------------|
| LX      | LEVEL CROSSING SIGN * |
| WLO     | WHEN LOOP OCCUPIED    |

*\*As per ARTC Permanent Safe Notice 019-2004.*